```
Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1712jxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

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 NEWS 44  Jun 20  2003 edition of the FSTA Thesaurus is now available
 NEWS 45  Jun 25  HSDB has been reloaded

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:26:59 ON 03 JUL 2003

=> FIL REGISTRY
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    0.21        0.21

FILE 'REGISTRY' ENTERED AT 13:27:08 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    2 JUL 2003  HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES:   2 JUL 2003  HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10032128.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```

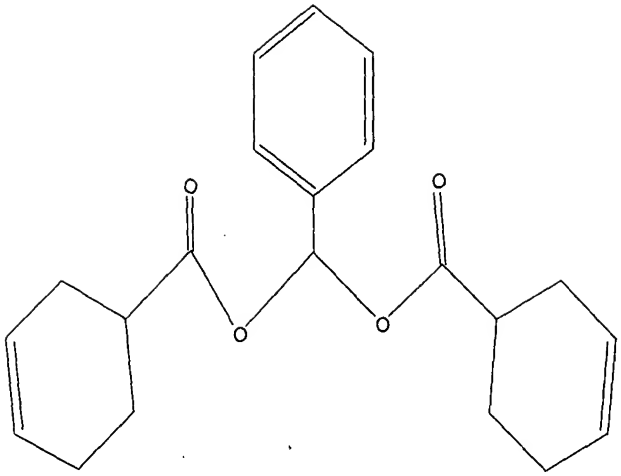

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1 exa sam
SAMPLE SEARCH INITIATED 13:27:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      1 TO ITERATE

100.0% PROCESSED       1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA EXA SAM L1

=> s l1 sss sam
SAMPLE SEARCH INITIATED 13:27:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    488 TO ITERATE

100.0% PROCESSED     488 ITERATIONS                               1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         8435 TO    11085
PROJECTED ANSWERS:               1 TO       79

L3            1 SEA SSS SAM L1

=> d scasn
'SCASN' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG     - RN
SAM     - Index Name, MF, and structure - no RN
FIDE    - All substance data, except sequence data
```

```
IDE     - FIDE, but only 50 names
SQIDE   - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD     - Protein sequence data, includes RN
SQD3    - Same as SQD, but 3-letter amino acid codes are used
SQN     - Protein sequence name information, includes RN

CALC    - Table of calculated properties
EPROP   - Table of experimental properties
PROP    - EPROP and CALC

Any CA File format may be combined with any substance format to
obtain CA references citing the substance.  The substance formats
must be cited first.  The CA File predefined formats are:

ABS  -- Abstract
APPS -- Application and Priority Information
BIB  -- CA Accession Number, plus Bibliographic Data
CAN  -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND  -- Index Data
IPC  -- International Patent Classification
PATS -- PI, SO
STD  -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when
it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):scan
'SCAN' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG     - RN
SAM     - Index Name, MF, and structure - no RN
FIDE    - All substance data, except sequence data
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SQD     - Protein sequence data, includes RN
SQD3    - Same as SQD, but 3-letter amino acid codes are used
SQN     - Protein sequence name information, includes RN
```

```
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IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when
it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):d scan
'D' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'SCAN' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG     - RN
SAM     - Index Name, MF, and structure - no RN
FIDE    - All substance data, except sequence data
IDE     - FIDE, but only 50 names
SQIDE   - IDE, plus sequence data
SQIDE3  - Same as SQIDE, but 3-letter amino acid codes are used
SQD     - Protein sequence data, includes RN
SQD3    - Same as SQD, but 3-letter amino acid codes are used
SQN     - Protein sequence name information, includes RN

CALC    - Table of calculated properties
EPROP   - Table of experimental properties
PROP    - EPROP and CALC

Any CA File format may be combined with any substance format to
obtain CA references citing the substance.  The substance formats
```

must be cited first. The CA File predefined formats are:

ABS -- Abstract
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SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):reg
1 RN 2929-70-6 REGISTRY

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.38	1.59

FILE 'REGISTRY' ENTERED AT 13:28:40 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> S 2929-70-6/RN

L4 1 2929-70-6/RN

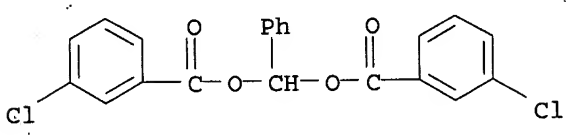
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L4 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 2929-70-6 REGISTRY
CN Benzoic acid, m-chloro-, benzylidene ester (7CI, 8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Toluene-.alpha.,.alpha.-diol, bis(m-chlorobenzoate)
FS 3D CONCORD
MF C21 H14 Cl2 O4
LC STN Files: CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)
3 REFERENCES IN FILE CAPLUS (1957 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

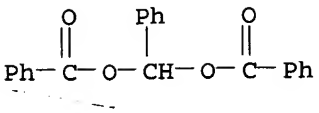
=> s l1 exa full
FULL SEARCH INITIATED 13:29:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L5 1 SEA EXA FUL L1

=> d scan

L5 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Methanediol, phenyl-, dibenzoate (9CI)
MF C21 H16 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	52.23	53.82

STN INTERNATIONAL LOGOFF AT 13:29:53 ON 03 JUL 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sspta1712jxr

PASSWORD:
LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.
You either typed them incorrectly, or line noise may
have corrupted them.

Do you wish to retry the logon?
Enter choice (y/N):
Do you wish to use the same loginid and password?
Enter choice (y/N):
Enter new loginid (or press [Enter] for sspta1712jxr):
Enter new password:

LOGINID:
LOGINID:ssspta1712jxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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NEWS INTER	General Internet Information
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NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:34:35 ON 03 JUL 2003

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:34:44 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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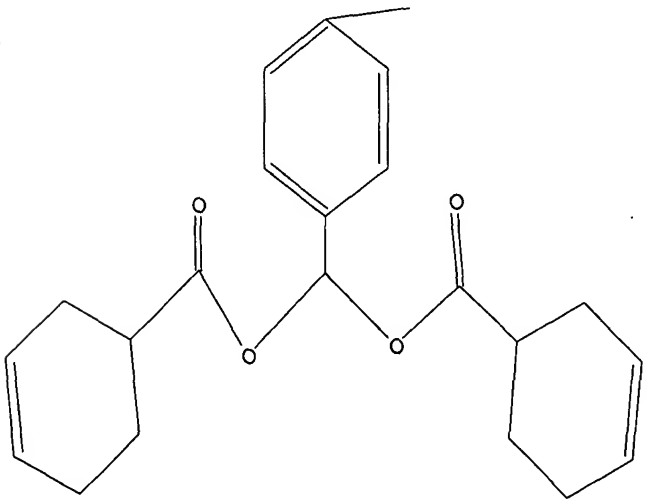
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10032128.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



```
Structure attributes must be viewed using STN Express query preparation.


=> s l1 exa sam
SAMPLE SEARCH INITIATED 13:35:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO         0
PROJECTED ANSWERS:               0 TO         0

L2             0 SEA EXA SAM L1

=>

---Logging off of STN---


=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.40       0.61

STN INTERNATIONAL LOGOFF AT 13:35:35 ON 03 JUL 2003


Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1712jxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2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                  right truncation
NEWS 42   Jun 06  Simultaneous left and right truncation added to CBNB
NEWS 43   Jun 06  PASCAL enhanced with additional data
NEWS 44   Jun 20  2003 edition of the FSTA Thesaurus is now available
NEWS 45   Jun 25  HSDB has been reloaded

NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:46:02 ON 03 JUL 2003

=> FIL REGISTRY
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
```

```
FULL ESTIMATED COST                                    0.21        0.21

FILE 'REGISTRY' ENTERED AT 13:46:12 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    2 JUL 2003  HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES:   2 JUL 2003  HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10032128struc2.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l1 exa sam
SAMPLE SEARCH INITIATED 13:47:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:             0 TO        0
PROJECTED ANSWERS:                0 TO        0

L2            0 SEA EXA SAM L1

=>
Uploading 10032128struc3.str

L3      STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3              STR
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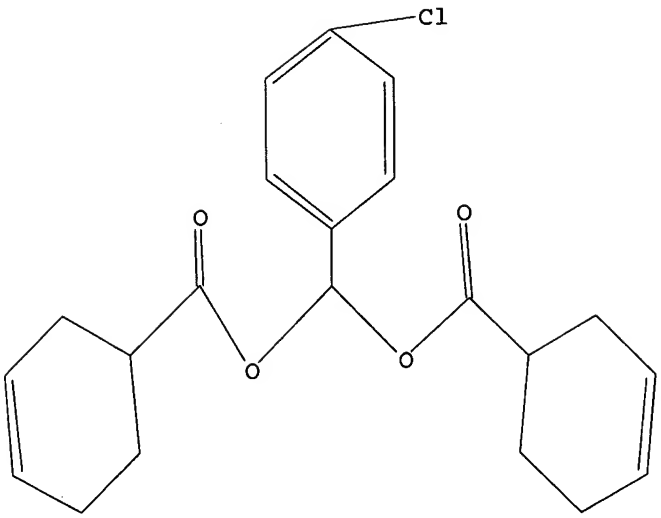

Structure attributes must be viewed using STN Express query preparation.

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=> s l3 exa sam
SAMPLE SEARCH INITIATED 13:47:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

L4            0 SEA EXA SAM L3

=>
Uploading 10032128struc4.str

L5      STRUCTURE UPLOADED

=> s l5 exa sam
SAMPLE SEARCH INITIATED 13:48:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

L6            0 SEA EXA SAM L5

=>
Uploading 10032128struc5.str

L7      STRUCTURE UPLOADED

=> s l7 sss sam
SAMPLE SEARCH INITIATED 13:48:29 FILE 'REGISTRY'
```

SAMPLE SCREEN SEARCH COMPLETED - 99 TO ITERATE

100.0% PROCESSED 99 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1384 TO 2576
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

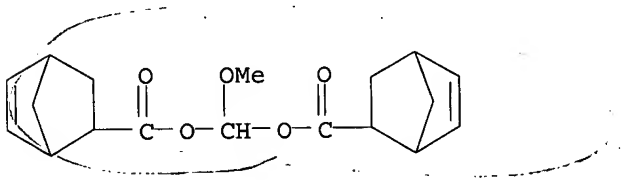
=> s l7 sss full
FULL SEARCH INITIATED 13:48:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2144 TO ITERATE

100.0% PROCESSED 2144 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L9 3 SEA SSS FUL L7

=> d scan

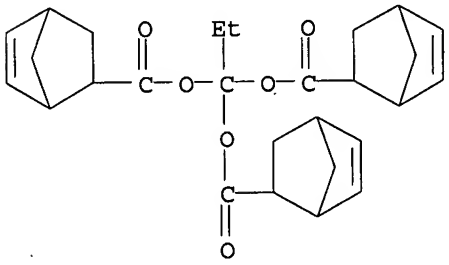
L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)
MF C18 H22 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester (9CI)
MF C27 H32 O6
CI COM

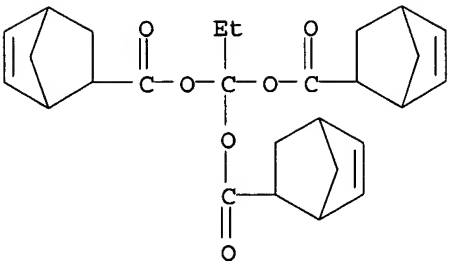


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester, homopolymer (9CI)
MF (C27 H32 O6)x
CI PMS

CM 1



ALL ANSWERS HAVE BEEN SCANNED

=> d ibib 1
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

```
OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when
it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):abs
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG     - RN
SAM     - Index Name, MF, and structure - no RN
FIDE    - All substance data, except sequence data
IDE     - FIDE, but only 50 names
SQIDE   - IDE, plus sequence data
SQIDE3  - Same as SQIDE, but 3-letter amino acid codes are used
SQD     - Protein sequence data, includes RN
SQD3    - Same as SQD, but 3-letter amino acid codes are used
SQN     - Protein sequence name information, includes RN

CALC    - Table of calculated properties
EPROP   - Table of experimental properties
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IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when
```
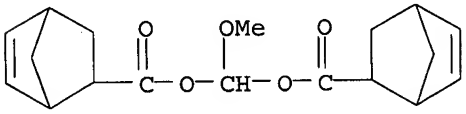

it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):sam

L9 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
IN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)
MF C18 H22 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> d bib 1
'BIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats. The predefined substance formats
are: (RN = CAS Registry Number)

REG   - RN
SAM   - Index Name, MF, and structure - no RN
FIDE   - All substance data, except sequence data
IDE   - FIDE, but only 50 names
SQIDE   - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD   - Protein sequence data, includes RN
SQD3   - Same as SQD, but 3-letter amino acid codes are used
SQN   - Protein sequence name information, includes RN

CALC   - Table of calculated properties
EPROP   - Table of experimental properties
PROP   - EPROP and CALC

Any CA File format may be combined with any substance format to
obtain CA references citing the substance. The substance formats
must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

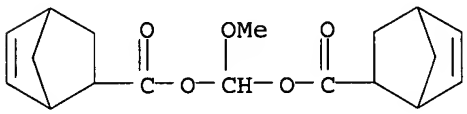
For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):all

L9 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 318239-96-2 REGISTRY
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H22 O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C5-C5	C5-C5	5-5	C7	103.10.3	2



Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	1022	pH 1	(1) ACD
Bioconc. Factor (BCF)	1022	pH 4	(1) ACD
Bioconc. Factor (BCF)	1022	pH 7	(1) ACD
Bioconc. Factor (BCF)	1022	pH 8	(1) ACD
Bioconc. Factor (BCF)	1022	pH 10	(1) ACD
Boiling Point (BP)	424.5+/-45.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (HVAP)	67.89+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	186.3+/-51.8 deg C		(1) ACD
H acceptors (HAC)	5		(1) ACD

H donors (HD)	0		(1) ACD
Koc (KOC)	4964	pH 1	(1) ACD
Koc (KOC)	4964	pH 4	(1) ACD
Koc (KOC)	4964	pH 7	(1) ACD
Koc (KOC)	4964	pH 8	(1) ACD
Koc (KOC)	4964	pH 10	(1) ACD
logD (LOGD)	4.26	pH 1	(1) ACD
logD (LOGD)	4.26	pH 4	(1) ACD
logD (LOGD)	4.26	pH 7	(1) ACD
logD (LOGD)	4.26	pH 8	(1) ACD
logD (LOGD)	4.26	pH 10	(1) ACD
logP (LOGP)	4.263+/-0.525		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	318.36		(1) ACD
Vapor Pressure (VP)	2.06E-07 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.67 ((C) 1994-2003 ACD)

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 134:93337 CA
TI Carboxylic acid derivatives and their synthesis method
IN Seo, Dong Chul; Park, Joo Hyeon; Kim, Jae Young; Kim, Seong Ju
PA Korea Kumho Petrochemical Co. Ltd., S. Korea
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C07C069-75
ICS C07C067-11; C07C069-753; C07C069-608; C07J009-00; C07C069-00
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 25
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1067112	A2	20010110	EP 1999-307985	19991011
	EP 1067112	A3	20020327		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	KR 2001009339	A	20010205	KR 1999-27670	19990709
	JP 2001039928	A2	20010213	JP 1999-293288	19991015
	US 6313327	B1	20011106	US 1999-425961	19991025
PRAI	KR 1999-27670	19990709			

AB This invention relates to the synthesis of novel carboxylic acid derivs. represented by the formula, CHR1(R2)2, where, R1 is an H atom, an alkyl group or an alkoxy group of 1 to 20 C atoms in a linear, branched or cyclic form; R2 is a carboxy group of 1 to 40 C atoms in a linear, branched or cyclic form which is unsubstituted, or substituted into a hydroxy group, an ester group and an ether group. The novel carboxylic acid derivs. are more easily decompd. by acid than tert-Bu ester compds. but are not dissolved in basic aq. soln. According to this invention, carboxylic acid is under condensation with halogen compds. designed to prep. a larger monomol. compd. compared to the conventional method. Further, the condensed site is easily decompd. by acid but is extremely insol. by basic aq. soln. The carboxylic acid derivs. in a photoresist compn. function not only as a dissoln. promoter in the exposed area due to

formation of the carboxylic acid, thus enhancement of etching resistance and pattern profile in a resist.

ST carboxylic acid deriv dissoln promoter etching photoresist

IT Dissolution
Etching
Photoresists
(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

IT Carboxylic acids, preparation
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

IT 7440-21-3, Silicon, uses
RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
(carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. coated on)

IT 66003-78-9, Triphenylsulfonium trifluoromethane sulfonate 318240-07-2 318240-10-7
RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
(carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. contg.)

IT 75-11-6P, Diiodomethane 81-25-4P, Cholic acid 83-44-3P, Deoxycholic acid 83-49-8P, Hyodeoxycholic acid 98-89-5P, Cyclohexanecarboxylic acid 120-74-1P 434-13-9P 828-51-3P, 1-Adamantanecarboxylic acid 1007-01-8P, Bicyclo[2.2.1]heptane-2-acetic acid 4885-02-3P 4942-47-6P, 1-Adamantaneacetic acid 5451-55-8P, 4-tert-Butylcyclohexanecarboxylic acid 18720-30-4P, Bicyclo[2.2.1]heptane-1-carboxylic acid 318239-92-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of carboxylic acid derivs. as dissoln. promoters in photoresist compns. using)

IT 318239-93-9P 318239-94-0P 318239-95-1P 318239-96-2P 318239-97-3P 318239-98-4P 318239-99-5P 318240-00-5P 318240-01-6P 318240-02-7P 318240-03-8P 318240-04-9P 318294-03-0P
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

=>
Uploading 10032128struc6.str

L10 STRUCTURE UPLOADED

=> s l10 sss sam
SAMPLE SEARCH INITIATED 13:51:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 667 TO ITERATE

100.0% PROCESSED 667 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 11791 TO 14889
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s l10 sss full
FULL SEARCH INITIATED 13:51:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13545 TO ITERATE

```
100.0% PROCESSED   13545 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L12            0 SEA SSS FUL L10

=> log y
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     306.02     306.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -0.62      -0.62

STN INTERNATIONAL LOGOFF AT 13:52:05 ON 03 JUL 2003


Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1712jxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  Jun 03  New e-mail delivery for search results now available
 NEWS  4  Aug 08  PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS  5  Aug 19  Aquatic Toxicity Information Retrieval (AQUIRE)
                  now available on STN
 NEWS  6  Aug 26  Sequence searching in REGISTRY enhanced
 NEWS  7  Sep 03  JAPIO has been reloaded and enhanced
 NEWS  8  Sep 16  Experimental properties added to the REGISTRY file
 NEWS  9  Sep 16  CA Section Thesaurus available in CAPLUS and CA
 NEWS 10  Oct 01  CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 11  Oct 24  BEILSTEIN adds new search fields
 NEWS 12  Oct 24  Nutraceuticals International (NUTRACEUT) now available on STN
 NEWS 13  Nov 18  DKILIT has been renamed APOLLIT
 NEWS 14  Nov 25  More calculated properties added to REGISTRY
 NEWS 15  Dec 04  CSA files on STN
 NEWS 16  Dec 17  PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 17  Dec 17  TOXCENTER enhanced with additional content
 NEWS 18  Dec 17  Adis Clinical Trials Insight now available on STN
 NEWS 19  Jan 29  Simultaneous left and right truncation added to COMPENDEX,
                  ENERGY, INSPEC
 NEWS 20  Feb 13  CANCERLIT is no longer being updated
 NEWS 21  Feb 24  METADEX enhancements
 NEWS 22  Feb 24  PCTGEN now available on STN
 NEWS 23  Feb 24  TEMA now available on STN
 NEWS 24  Feb 26  NTIS now allows simultaneous left and right truncation
 NEWS 25  Feb 26  PCTFULL now contains images
 NEWS 26  Mar 04  SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 27  Mar 20  EVENTLINE will be removed from STN
 NEWS 28  Mar 24  PATDPAFULL now available on STN
 NEWS 29  Mar 24  Additional information for trade-named substances without
```

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                  structures available in REGISTRY
NEWS 30   Apr 11  Display formats in DGENE enhanced
NEWS 31   Apr 14  MEDLINE Reload
NEWS 32   Apr 17  Polymer searching in REGISTRY enhanced
NEWS 33   Jun 13  Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 34   Apr 21  New current-awareness alert (SDI) frequency in
                  WPIDS/WPINDEX/WPIX
NEWS 35   Apr 28  RDISCLOSURE now available on STN
NEWS 36   May 05  Pharmacokinetic information and systematic chemical names
                  added to PHAR
NEWS 37   May 15  MEDLINE file segment of TOXCENTER reloaded
NEWS 38   May 15  Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39   May 16  CHEMREACT will be removed from STN
NEWS 40   May 19  Simultaneous left and right truncation added to WSCA
NEWS 41   May 19  RAPRA enhanced with new search field, simultaneous left and
                  right truncation
NEWS 42   Jun 06  Simultaneous left and right truncation added to CBNB
NEWS 43   Jun 06  PASCAL enhanced with additional data
NEWS 44   Jun 20  2003 edition of the FSTA Thesaurus is now available
NEWS 45   Jun 25  HSDB has been reloaded

NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:43:21 ON 03 JUL 2003

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

FILE 'REGISTRY' ENTERED AT 15:43:48 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5
DICTIONARY FILE UPDATES: 2 JUL 2003 HIGHEST RN 541497-70-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10032128struc6.str

L1   STRUCTURE UPLOADED

=> s l1 sss full
FULL SEARCH INITIATED 15:44:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13545 TO ITERATE

100.0% PROCESSED 13545 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L2   0 SEA SSS FUL L1

=>
Uploading 10032128struc5.str

L3   STRUCTURE UPLOADED

=> s l3 sss full
FULL SEARCH INITIATED 15:44:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2144 TO ITERATE

100.0% PROCESSED 2144 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

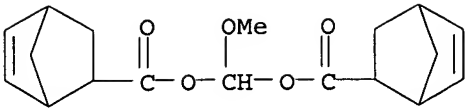
L4   3 SEA SSS FUL L3

=> d 1-3 all

L4   ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN   318239-96-2 REGISTRY
CN   Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, methoxymethylene ester (9CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C18 H22 O5
SR   CA
LC   STN Files: CA, CAPLUS, USPATFULL

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C5-C5	C5-C5	5-5	C7	103.10.3	2



Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	1022	pH 1	(1) ACD
Bioconc. Factor (BCF)	1022	pH 4	(1) ACD
Bioconc. Factor (BCF)	1022	pH 7	(1) ACD
Bioconc. Factor (BCF)	1022	pH 8	(1) ACD
Bioconc. Factor (BCF)	1022	pH 10	(1) ACD
Boiling Point (BP)	424.5+/-45.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (HVAP)	67.89+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	186.3+/-51.8 deg C		(1) ACD
H acceptors (HAC)	5		(1) ACD
H donors (HD)	0		(1) ACD
Koc (KOC)	4964	pH 1	(1) ACD
Koc (KOC)	4964	pH 4	(1) ACD
Koc (KOC)	4964	pH 7	(1) ACD
Koc (KOC)	4964	pH 8	(1) ACD
Koc (KOC)	4964	pH 10	(1) ACD
logD (LOGD)	4.26	pH 1	(1) ACD
logD (LOGD)	4.26	pH 4	(1) ACD
logD (LOGD)	4.26	pH 7	(1) ACD
logD (LOGD)	4.26	pH 8	(1) ACD
logD (LOGD)	4.26	pH 10	(1) ACD
logP (LOGP)	4.263+/-0.525		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	318.36		(1) ACD
Vapor Pressure (VP)	2.06E-07 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.67 ((C) 1994-2003 ACD)

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 134:93337 CA
TI Carboxylic acid derivatives and their synthesis method
IN Seo, Dong Chul; Park, Joo Hyeon; Kim, Jae Young; Kim, Seong Ju
PA Korea Kumho Petrochemical Co. Ltd., S. Korea
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C07C069-75
ICS C07C067-11; C07C069-753; C07C069-608; C07J009-00; C07C069-00
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 25

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1067112	A2	20010110	EP 1999-307985	19991011
	EP 1067112	A3	20020327		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	KR 2001009339	A	20010205	KR 1999-27670	19990709
	JP 2001039928	A2	20010213	JP 1999-293288	19991015
	US 6313327	B1	20011106	US 1999-425961	19991025
PRAI	KR 1999-27670	19990709			

AB This invention relates to the synthesis of novel carboxylic acid derivs. represented by the formula, CHR1(R2)2, where, R1 is an H atom, an alkyl group or an alkoxy group of 1 to 20 C atoms in a linear, branched or cyclic form; R2 is a carboxy group of 1 to 40 C atoms in a linear, branched or cyclic form which is unsubstituted, or substituted into a hydroxy group, an ester group and an ether group. The novel carboxylic acid derivs. are more easily decompd. by acid than tert-Bu ester compds. but are not dissolved in basic aq. soln. According to this invention, carboxylic acid is under condensation with halogen compds. designed to prep. a larger monomol. compd. compared to the conventional method. Further, the condensed site is easily decompd. by acid but is extremely insol. by basic aq. soln. The carboxylic acid derivs. in a photoresist compn. function not only as a dissoln. promoter in the exposed area due to formation of the carboxylic acid, thus enhancement of etching resistance and pattern profile in a resist.

ST carboxylic acid deriv dissoln promoter etching photoresist

IT Dissolution
Etching
Photoresists
(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

IT Carboxylic acids, preparation
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(synthesis of carboxylic acid derivs. useful as dissoln. promoters for enhancing etching resist pattern in photoresist compns.)

IT 7440-21-3, Silicon, uses
RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
(carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. coated on)

IT 66003-78-9, Triphenylsulfonium trifluoromethane sulfonate 318240-07-2 318240-10-7
RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
(carboxylic acid derivs. useful as dissoln. promoters in photoresist compns. contg.)

IT 75-11-6P, Diiodomethane 81-25-4P, Cholic acid 83-44-3P, Deoxycholic acid 83-49-8P, Hyodeoxycholic acid 98-89-5P, Cyclohexanecarboxylic acid 120-74-1P 434-13-9P 828-51-3P, 1-Adamantanecarboxylic acid 1007-01-8P, Bicyclo[2.2.1]heptane-2-acetic acid 4885-02-3P 4942-47-6P, 1-Adamantaneacetic acid 5451-55-8P, 4-tert-Butylcyclohexanecarboxylic acid 18720-30-4P, Bicyclo[2.2.1]heptane-1-carboxylic acid 318239-92-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of carboxylic acid derivs. as dissoln. promoters in photoresist compns. using)

IT 318239-93-9P 318239-94-0P 318239-95-1P 318239-96-2P 318239-97-3P 318239-98-4P 318239-99-5P 318240-00-5P 318240-01-6P 318240-02-7P 318240-03-8P 318240-04-9P 318294-03-0P
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(synthesis of carboxylic acid derivs. useful as dissoln. promoters for

enhancing etching resist pattern in photoresist compns.)

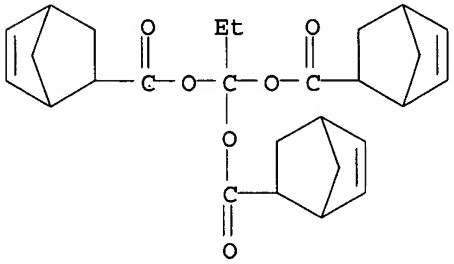
L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 245346-00-3 REGISTRY
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester, homopolymer (9CI) (CA INDEX NAME)
MF (C27 H32 O6)x
CI PMS
PCT Polyother, Polyother only
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C5-C5	C5-C5	5-5	C7	103.10.3	3

CM 1

CRN 245345-99-7
CMF C27 H32 O6



1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 131:272336 CA
TI Ruthenium and osmium carbene carbonyl catalysts
IN Van Der Schaaf, Paul Adriaan; Kolly, Roman; Muhlebach, Andreas; Hafner, Andreas
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C08G061-00
CC 35-3 (Chemistry of Synthetic High Polymers)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9950330	A2	19991007	WO 1999-EP1914	19990322
WO 9950330	A3	19991118		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,

MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9935198 A1 19991018 AU 1999-35198 19990322
EP 1070091 A2 20010124 EP 1999-916859 19990322
R: BE, DE, FR, NL
JP 2002509960 T2 20020402 JP 2000-541227 19990322
US 6465554 B1 20021015 US 2000-647031 20000925
PRAI CH 1998-774 19980331
WO 1999-EP1914 19990322

AB Hexacoordinated Ru and Os carbenes with a carbonyl group ligands and vinyl group substituents on the carbene group are catalysts for the photoinduced ring-opening metathesis of strained cycloolefins.

ST ruthenium cycloolefin polymn catalyst; osmium cycloolefin polymn catalyst; carbene carbonyl ruthenium polymn catalyst

IT Polymerization
Polymerization catalysts
(metathetic; Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT Cycloalkenes
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polymers; Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT Polymerization catalysts
(ring-opening; Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT 245345-94-2P 245345-95-3P 245345-96-4P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(Ruthenium and osmium carbene carbonyl polymn. catalysts)

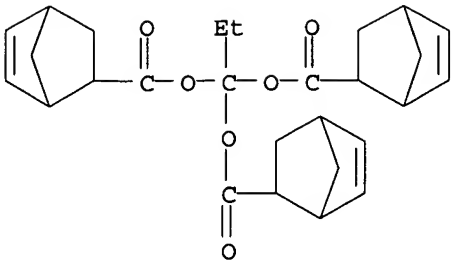
IT 27176-60-9 30421-42-2 150274-86-5 245346-00-3 245346-01-4
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(Ruthenium and osmium carbene carbonyl polymn. catalysts)

IT 1111-97-3 36621-70-2 102513-17-7 245345-98-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(Ruthenium and osmium carbene carbonyl polymn. catalysts)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 245345-99-7 REGISTRY
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, propylidyne ester (9CI) (CA INDEX NAME)
MF C27 H32 O6
CI COM
SR CA

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C5-C5	C5-C5	5-5	C7	103.10.3	3



Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	114848	pH 1	(1) ACD
Bioconc. Factor (BCF)	114848	pH 4	(1) ACD
Bioconc. Factor (BCF)	114848	pH 7	(1) ACD
Bioconc. Factor (BCF)	114848	pH 8	(1) ACD
Bioconc. Factor (BCF)	114848	pH 10	(1) ACD
Boiling Point (BP)	558.0+/-50.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (HVAP)	84.00+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	238.9+/-54.3 deg C		(1) ACD
Freely Rotatable Bonds (FRB)	10		(1) ACD
H acceptors (HAC)	6		(1) ACD
H donors (HD)	0		(1) ACD
Koc (KOC)	145752	pH 1	(1) ACD
Koc (KOC)	145752	pH 4	(1) ACD
Koc (KOC)	145752	pH 7	(1) ACD
Koc (KOC)	145752	pH 8	(1) ACD
Koc (KOC)	145752	pH 10	(1) ACD
logD (LOGD)	6.96	pH 1	(1) ACD
logD (LOGD)	6.96	pH 4	(1) ACD
logD (LOGD)	6.96	pH 7	(1) ACD
logD (LOGD)	6.96	pH 8	(1) ACD
logD (LOGD)	6.96	pH 10	(1) ACD
logP (LOGP)	6.961+/-0.549		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	452.54		(1) ACD
Vapor Pressure (VP)	1.74E-12 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.76 ((C) 1994-2003 ACD)

=>

---Logging off of STN---

=>
Executing the logoff script...